

Map Unit Description (MN)

Dodge County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewhat and should be determined by onsite investigation]

1003--Udorthents, loamy (cut and fill land)

Udorthents, loamy

Extent: 100 percent of the unit

Landform(s): till plains

Slope gradient: 0 to 6 percent

Parent material: silty, loamy or clayey material

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class: well drained

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

1007--Udorthents, shallow (sanitary landfill)

Udorthents, shallow

Extent: 100 percent of the unit

Landform(s): till plains

Slope gradient: 0 to 25 percent

Parent material: variable material

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class: well drained

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

Map Unit Description (MN)

Dodge County, Minnesota

1010--Pits, quarry

Pits, quarry

Extent: 100 percent of the unit

Landform(s): hills, valley sides

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

Map Unit Description (MN)

Dodge County, Minnesota

1027A--Coland-Spillville complex, 0 to 2 percent slopes, flooded

Coland, frequently flooded

Extent: 20 to 80 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 32 in	silty clay loam	moderate	6.70 to 7.33 in	6.1 to 7.3
AB -- 32 to 40 in	clay loam	moderate	1.24 to 1.57 in	6.1 to 7.3
Bg1 -- 40 to 44 in	sandy loam	moderately rapid	0.43 to 0.67 in	6.1 to 7.3
Bg2 -- 44 to 52 in	loam	moderate	0.94 to 1.50 in	5.6 to 7.3
Cg -- 52 to 60 in	sandy loam	moderately rapid	0.87 to 1.34 in	6.1 to 7.3

Spillville, occasionally flooded

Extent: 20 to 60 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .15

Land capability, nonirrigated: 2w

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 54 in	loam	moderate	10.79 to 11.87 in	5.6 to 7.3
C -- 54 to 80 in	loam	moderate	3.12 to 4.94 in	5.6 to 7.3

Map Unit Description (MN)

Dodge County, Minnesota

1033A--Spillville loam, 0 to 2 percent slopes, occasionally flooded

Spillville, occasionally flooded

Extent: 60 to 90 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: loamy alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .15

Land capability, nonirrigated: 2w

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 54 in	loam		moderate	10.79 to 11.87 in	5.6 to 7.3
C --	54 to 80 in	loam		moderate	3.12 to 4.94 in	5.6 to 7.3

Map Unit Description (MN)

Dodge County, Minnesota

GP--Pits, gravel-Udipsamments complex

Pits, gravel

Extent: 45 to 55 percent of the unit

Landform(s): stream terraces, outwash plains, eskers, moraines

Slope gradient: 0 to 50 percent

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

Udipsamments

Extent: 40 to 50 percent of the unit

Landform(s): stream terraces, outwash plains, eskers, moraines

Slope gradient: 0 to 25 percent

Parent material: sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class: excessively drained

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil: no

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

Map Unit Description (MN)

Dodge County, Minnesota

L57A--Medo muck, depressional, 0 to 1 percent slopes

Medo, depressional

Extent: 80 to 100 percent of the unit

Landform(s): depressions on outwash plains, depressions on till plains

Slope gradient: 0 to 1 percent

Parent material: organic materials over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 2

Wind erodibility index (WEI): 134

Kw factor (surface layer) .02

Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Oa --	0 to 27 in	muck	moderately rapid	9.51 to 12.22 in	
2A --	27 to 35 in	mucky loam	moderate	1.57 to 2.28 in	
2Bg --	35 to 39 in	sandy clay loam	moderate	0.63 to 0.87 in	
2Cg --	39 to 80 in	gravelly loamy coarse sand	very rapid	0.82 to 3.28 in	

Map Unit Description (MN)

Dodge County, Minnesota

L171A--Merton silt loam, 1 to 3 percent slopes

Merton

Extent: 65 to 95 percent of the unit

Landform(s): rises on ground moraines

Slope gradient: 1 to 3 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bw --	16 to 23 in	silt loam	moderate	1.14 to 1.47 in	5.6 to 7.3
2Bw --	23 to 36 in	loam	moderate	2.21 to 2.47 in	5.6 to 7.3
2BC --	36 to 48 in	loam	moderate	2.07 to 2.32 in	5.6 to 7.3
2C --	48 to 60 in	loam	moderate	2.01 to 2.24 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

L177B--Moland silt loam, 2 to 6 percent slopes

Moland

Extent: 80 to 95 percent of the unit

Landform(s): ground moraines

Slope gradient: 2 to 6 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 14 in	silt loam	moderate	3.12 to 3.40 in	5.6 to 7.3
Bw --	14 to 20 in	silt loam	moderate	1.00 to 1.30 in	5.6 to 6.5
2Bw --	20 to 49 in	loam	moderate	4.89 to 5.46 in	5.6 to 7.3
2C --	49 to 80 in	loam	moderate	5.29 to 5.91 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

L180A--Maxcreek silty clay loam, 0 to 2 percent slopes

Maxcreek

Extent: 70 to 95 percent of the unit

Landform(s): flats on ground moraines, swales on ground moraines

Slope gradient: 0 to 2 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	silty clay loam	moderate	2.73 to 2.99 in	6.1 to 7.3
AB --	13 to 21 in	silty clay loam	moderate	1.42 to 1.73 in	6.1 to 7.3
Bg --	21 to 30 in	silty clay loam	moderate	1.63 to 1.99 in	6.6 to 7.8
2Bg --	30 to 41 in	loam	moderate	1.87 to 2.09 in	7.4 to 8.4
2Cg --	41 to 60 in	loam	moderate	3.21 to 3.59 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

L181A--Kish, till substratum-Mayer complex, 0 to 2 percent slopes

Kish, till substratum

Extent: 50 to 80 percent of the unit

Landform(s): flats on outwash plains, swales on till plains

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .20

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, A -- 0 to 12 in	clay loam	moderate	2.01 to 2.24 in	7.4 to 8.4
Bg -- 12 to 41 in	loam	moderate	4.66 to 6.41 in	7.4 to 8.4
BCg -- 41 to 61 in	sandy loam	moderate	2.21 to 3.81 in	7.4 to 8.4
2Cg -- 61 to 80 in	loam	moderate	3.21 to 3.59 in	7.4 to 8.4

Mayer

Extent: 20 to 40 percent of the unit

Landform(s): swales on till plains, flats on outwash plains

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 4L

Wind erodibility index (WEI): 86

Kw factor (surface layer) .24

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, A -- 0 to 18 in	clay loam	moderate	3.08 to 3.44 in	7.4 to 8.4
Bg -- 18 to 33 in	sandy clay loam	moderate	2.39 to 3.29 in	7.4 to 8.4
2C -- 33 to 80 in	gravelly coarse sand	very rapid	0.94 to 3.28 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

L182A--Newry silt loam, 1 to 3 percent slopes

Newry

Extent: 75 to 95 percent of the unit

Landform(s): rises on ground moraines

Slope gradient: 1 to 3 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 6.5
BE --	8 to 12 in	silt loam		moderate	0.67 to 0.87 in	5.1 to 6.5
Bt --	12 to 19 in	silty clay loam		moderate	1.20 to 1.56 in	5.1 to 6.5
2Bt --	19 to 40 in	loam		moderate	3.61 to 4.04 in	5.6 to 7.3
2C --	40 to 60 in	loam		moderate	3.35 to 3.74 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

L183B--Blooming silt loam, 2 to 6 percent slopes

Blooming

Extent: 80 to 95 percent of the unit

Landform(s): ground moraines

Slope gradient: 2 to 6 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 6.5
BE --	8 to 15 in	silt loam		moderate	1.28 to 1.56 in	5.6 to 6.5
2Bt --	15 to 48 in	loam		moderate	5.29 to 6.28 in	5.1 to 7.3
2C --	48 to 60 in	loam		moderate	2.01 to 2.24 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

L183C2--Blooming silt loam, 6 to 12 percent slopes, moderately eroded

Blooming, moderately eroded

Extent: 90 to 100 percent of the unit

Landform(s): ground moraines

Slope gradient: 6 to 12 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 6.5
BE --	8 to 15 in	silt loam		moderate	1.28 to 1.56 in	5.6 to 6.5
2Bt --	15 to 48 in	loam		moderate	5.29 to 6.28 in	5.1 to 7.3
2C --	48 to 60 in	loam		moderate	2.01 to 2.24 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

L190B--Warsaw loam, morainic, 2 to 6 percent slopes

Warsaw, morainic

Extent: 70 to 90 percent of the unit

Landform(s): moraines

Slope gradient: 2 to 6 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, A --	0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bt1 --	14 to 24 in	silt loam	moderate	1.48 to 2.17 in	5.1 to 6.5
Bt2 --	24 to 28 in	clay loam	moderate	0.59 to 0.79 in	5.1 to 6.5
2Bt3 --	28 to 39 in	gravelly sandy clay loam	moderate	1.32 to 2.09 in	5.1 to 7.8
2C --	39 to 60 in	gravelly coarse sand	very rapid	0.42 to 1.67 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

L190C2--Warsaw loam, morainic, 6 to 12 percent slopes, moderately eroded

Warsaw, morainic, moderately eroded

Extent: 70 to 88 percent of the unit

Landform(s): moraines

Slope gradient: 6 to 12 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, A --	0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bt1 --	14 to 24 in	silt loam	moderate	1.48 to 2.17 in	5.1 to 6.5
Bt2 --	24 to 28 in	clay loam	moderate	0.59 to 0.79 in	5.1 to 6.5
2Bt3 --	28 to 39 in	gravelly sandy clay loam	moderate	1.32 to 2.09 in	5.1 to 7.8
2C --	39 to 60 in	gravelly coarse sand	very rapid	0.42 to 1.67 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

M502A--Warsaw loam, 0 to 3 percent slopes

Warsaw

Extent: 70 to 98 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 3 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, A --	0 to 14 in	loam	moderate	2.83 to 3.12 in	5.6 to 7.3
Bt1 --	14 to 24 in	silt loam	moderate	1.48 to 2.17 in	5.1 to 6.5
Bt2 --	24 to 28 in	clay loam	moderate	0.59 to 0.79 in	5.1 to 6.5
2Bt3 --	28 to 39 in	gravelly sandy clay loam	moderate	1.32 to 2.09 in	5.1 to 7.8
2C --	39 to 60 in	gravelly coarse sand	very rapid	0.42 to 1.67 in	7.4 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

M504A--Marshan clay loam, 0 to 2 percent slopes

Marshan

Extent: 85 to 95 percent of the unit

Landform(s): flats on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .15

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 14 in	clay loam	moderate	2.41 to 2.69 in	5.6 to 7.3
AB --	14 to 18 in	silty clay loam	moderate	0.71 to 0.79 in	5.6 to 7.3
Bg1 --	18 to 23 in	silty clay loam	moderate	0.71 to 0.90 in	5.6 to 7.3
Bg2 --	23 to 30 in	loam	moderate	1.06 to 1.35 in	5.6 to 7.3
2Cg --	30 to 60 in	stratified gravelly sand to sand	rapid	0.60 to 2.39 in	6.1 to 7.4

Map Unit Description (MN)

Dodge County, Minnesota

M505A--Klinger silt loam, 1 to 3 percent slopes

Klinger

Extent: 75 to 95 percent of the unit

Landform(s): rises on till plains

Slope gradient: 1 to 3 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.1 to 7.3
AB --	13 to 19 in	silty clay loam	moderate	1.18 to 1.30 in	5.1 to 7.3
Bg --	19 to 31 in	silty clay loam	moderate	2.20 to 2.69 in	5.1 to 6.5
2Bg --	31 to 40 in	loam	moderate	1.45 to 1.72 in	5.1 to 7.8
2BCg --	40 to 46 in	loam	moderately slow	0.94 to 1.12 in	6.1 to 7.8
2BC --	46 to 60 in	loam	moderately slow	2.34 to 2.62 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M506B--Kasson silt loam, 1 to 6 percent slopes

Kasson

Extent: 80 to 95 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 6 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 6.5
BE --	8 to 11 in	silt loam		moderate	0.63 to 0.69 in	5.1 to 6.5
Bt --	11 to 20 in	loam		moderate	1.54 to 1.99 in	5.1 to 6.0
2Bt --	20 to 53 in	loam		moderate	5.62 to 6.28 in	5.1 to 7.3
2BC --	53 to 80 in	loam		moderately slow	4.55 to 5.09 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M507A--Marquis silt loam, 1 to 3 percent slopes

Marquis

Extent: 80 to 95 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 3 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 16 in	silt loam	moderate	3.55 to 3.87 in	6.1 to 7.3
Bw --	16 to 24 in	silt loam	moderate	1.34 to 1.73 in	6.1 to 7.3
2Bw --	24 to 48 in	loam	moderate	4.08 to 4.56 in	5.1 to 7.3
2BC --	48 to 80 in	loam	moderately slow	5.42 to 6.06 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M507B--Marquis silt loam, 2 to 6 percent slopes

Marquis

Extent: 75 to 98 percent of the unit

Landform(s): till plains

Slope gradient: 2 to 6 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 16 in	silt loam	moderate	3.55 to 3.87 in	6.1 to 7.3
Bw --	16 to 24 in	silt loam	moderate	1.34 to 1.73 in	6.1 to 7.3
2Bw --	24 to 48 in	loam	moderate	4.08 to 4.56 in	5.1 to 7.3
2BC --	48 to 80 in	loam	moderately slow	5.42 to 6.06 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M508A--Oran silt loam, 1 to 3 percent slopes

Oran

Extent: 80 to 95 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 3 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
E --	8 to 14 in	silt loam		moderate	1.26 to 1.39 in	5.1 to 7.3
BE --	14 to 21 in	silt loam		moderate	1.14 to 1.47 in	5.1 to 7.3
2Bt --	21 to 48 in	loam		moderate	4.62 to 5.16 in	5.1 to 7.3
2BC --	48 to 60 in	loam		moderately slow	2.01 to 2.24 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M509A--Mantorville loam, 0 to 2 percent slopes

Mantorville

Extent: 70 to 90 percent of the unit

Landform(s): terraces, till plains

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .28

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,AB --	0 to 15 in	loam	moderate	2.99 to 3.29 in	6.1 to 7.3
Bt --	15 to 26 in	loam	moderate	1.76 to 2.09 in	6.1 to 7.3
2Bt --	26 to 30 in	sandy loam	moderately rapid	0.31 to 0.55 in	5.6 to 6.5
2Bw --	30 to 48 in	sand	very rapid	0.36 to 1.81 in	5.6 to 6.5
2E&Bt --	48 to 80 in	stratified sand to loamy sand	rapid	1.28 to 3.19 in	5.6 to 6.5

Map Unit Description (MN)

Dodge County, Minnesota

M509B--Mantorville loam, 2 to 6 percent slopes

Mantorville

Extent: 75 to 90 percent of the unit

Landform(s): till plains

Slope gradient: 2 to 6 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .28

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,AB --	0 to 15 in	loam	moderate	2.99 to 3.29 in	6.1 to 7.3
Bt --	15 to 26 in	loam	moderate	1.76 to 2.09 in	6.1 to 7.3
2Bt --	26 to 30 in	sandy loam	moderately rapid	0.31 to 0.55 in	5.6 to 6.5
2Bw --	30 to 48 in	sand	very rapid	0.36 to 1.81 in	5.6 to 6.5
2E&Bt --	48 to 80 in	stratified sand to loamy sand	rapid	1.28 to 3.19 in	5.6 to 6.5

Map Unit Description (MN)

Dodge County, Minnesota

M509C2--Mantorville loam, 6 to 12 percent slopes, moderately eroded

Mantorville, moderately eroded

Extent: 65 to 90 percent of the unit

Landform(s): till plains

Slope gradient: 6 to 12 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .28

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,AB --	0 to 15 in	loam	moderate	2.99 to 3.29 in	6.1 to 7.3
Bt --	15 to 26 in	loam	moderate	1.76 to 2.09 in	6.1 to 7.3
2Bt --	26 to 30 in	sandy loam	moderately rapid	0.31 to 0.55 in	5.6 to 6.5
2Bw --	30 to 48 in	sand	very rapid	0.36 to 1.81 in	5.6 to 6.5
2E&Bt --	48 to 80 in	stratified sand to loamy sand	rapid	1.28 to 3.19 in	5.6 to 6.5

Map Unit Description (MN)

Dodge County, Minnesota

M510A--Maxfield silty clay loam, 0 to 2 percent slopes

Maxfield

Extent: 85 to 98 percent of the unit

Landform(s): flats on till plains

Slope gradient: 0 to 2 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 19 in	silty clay loam	moderate	3.97 to 4.35 in	5.1 to 7.3
Bg1 --	19 to 29 in	silty clay loam	moderate	1.84 to 2.05 in	5.1 to 7.3
2Bw --	29 to 55 in	loam	moderate	4.16 to 4.94 in	5.1 to 6.5
2BC --	55 to 80 in	loam	moderately slow	4.22 to 4.71 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M511A--Readlyn silt loam, 1 to 3 percent slopes

Readlyn

Extent: 90 to 98 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 3 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 17 in	silt loam	moderate	3.72 to 4.06 in	5.1 to 7.3
Bw --	17 to 22 in	silt loam	moderate	0.87 to 1.13 in	6.1 to 7.3
2Bw --	22 to 47 in	loam	moderate	3.97 to 4.71 in	5.1 to 7.3
2BC --	47 to 60 in	loam	moderately slow	2.21 to 2.47 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M512A--Menomin-Hayfield complex, 0 to 4 percent slopes

Menomin

Extent: 20 to 80 percent of the unit

Landform(s): rises on outwash plains, stream terraces

Slope gradient: 0 to 4 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in		silt loam	moderate	1.99 to 2.17 in	5.1 to 7.3
Bt --	9 to 32 in		loam	moderate	2.74 to 5.02 in	5.1 to 7.3
2BC1 --	32 to 43 in		loamy sand	very rapid	0.22 to 1.10 in	5.1 to 6.5
2BC2 --	43 to 55 in		coarse sand	very rapid	0.24 to 0.85 in	5.1 to 6.5
2C --	55 to 60 in		coarse sand	very rapid	0.09 to 0.33 in	5.1 to 6.5

Hayfield

Extent: 20 to 70 percent of the unit

Landform(s): rises on outwash plains, stream terraces

Slope gradient: 0 to 3 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in		silt loam	moderate	1.73 to 1.89 in	5.6 to 6.5
E --	8 to 13 in		loam	moderate	0.87 to 0.97 in	5.6 to 6.5
Bt --	13 to 29 in		loam	moderate	2.74 to 3.55 in	5.1 to 6.0
2C --	29 to 80 in		coarse sand	very rapid	1.02 to 4.06 in	5.6 to 7.8

Map Unit Description (MN)

Dodge County, Minnesota

M513A--Meridian loam, 0 to 3 percent slopes

Meridian

Extent: 65 to 95 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 3 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	loam	moderate	1.81 to 1.99 in	5.1 to 7.3
Bt1 --	9 to 25 in	loam	moderate	2.74 to 3.55 in	5.1 to 7.3
Bt2 --	25 to 27 in	sandy loam	moderately rapid	0.24 to 0.37 in	5.1 to 6.5
2C --	27 to 80 in	stratified coarse sand to sand	very rapid	1.06 to 5.28 in	5.1 to 6.5

Map Unit Description (MN)

Dodge County, Minnesota

M514A--Lawler-Marshan complex, 0 to 2 percent slopes

Lawler

Extent: 30 to 85 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: moderate

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, A -- 0 to 13 in	loam	moderate	2.60 to 2.86 in	5.6 to 7.3
AB -- 13 to 19 in	silt loam	moderate	0.89 to 1.30 in	5.1 to 6.5
Bt -- 19 to 28 in	clay loam	moderate	1.36 to 1.81 in	5.1 to 6.5
2Bt -- 28 to 39 in	gravelly sandy clay loam	moderate	1.32 to 2.09 in	5.1 to 7.8
2C -- 39 to 60 in	gravelly coarse sand	very rapid	0.42 to 1.67 in	7.4 to 8.4

Marshan

Extent: 15 to 65 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 14 in	clay loam	moderate	2.41 to 2.83 in	5.6 to 7.3
AB -- 14 to 18 in	silty clay loam	moderate	0.71 to 0.79 in	5.6 to 7.3
Bg1 -- 18 to 23 in	silty clay loam	moderate	0.71 to 0.90 in	5.6 to 7.3
Bg2 -- 23 to 30 in	loam	moderate	1.06 to 1.35 in	5.6 to 7.3
2Cg -- 30 to 60 in	gravelly sand	very rapid	0.60 to 2.39 in	6.1 to 7.3

Map Unit Description (MN)

Dodge County, Minnesota

M514A--Lawler-Marshan complex, 0 to 2 percent slopes

M515A--Tripoli silty clay loam, 0 to 2 percent slopes

Tripoli

Extent: 90 to 98 percent of the unit

Landform(s): flats on till plains, swales on till plains

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: C/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap, A --	0 to 18 in	silty clay loam	moderate	3.80 to 4.17 in	6.1 to 7.3
Bg --	18 to 24 in	clay loam	moderate	1.00 to 1.12 in	6.1 to 7.3
2Bw --	24 to 38 in	loam	moderate	2.41 to 2.69 in	6.6 to 7.8
2BC --	38 to 60 in	loam	moderately slow	3.68 to 4.11 in	6.6 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M517A--Clyde silty clay loam, 0 to 2 percent slopes

Clyde

Extent: 80 to 97 percent of the unit

Landform(s): drainageways on till plains

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A, AB --	0 to 23 in	silty clay loam	moderate	4.80 to 5.25 in	6.1 to 7.3
Bg1 --	23 to 41 in	silty clay loam	moderate	3.26 to 3.62 in	5.1 to 7.3
Bg2 --	41 to 44 in	sandy loam	moderate	0.35 to 0.60 in	6.1 to 7.3
2BCg --	44 to 60 in	loam	moderately slow	2.68 to 2.99 in	6.6 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M518B--Clyde-Floyd complex, 1 to 4 percent slopes

Clyde

Extent: 40 to 80 percent of the unit

Landform(s): drainageways on till plains

Slope gradient: 1 to 3 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,AB --	0 to 23 in	silty clay loam	moderate	4.80 to 5.25 in	6.1 to 7.3
Bg1 --	23 to 41 in	silty clay loam	moderate	3.26 to 3.62 in	5.1 to 7.3
Bg2 --	41 to 44 in	sandy loam	moderate	0.35 to 0.60 in	6.1 to 7.3
BCg --	44 to 60 in	loam	moderately slow	2.68 to 2.99 in	6.6 to 8.3

Floyd

Extent: 20 to 55 percent of the unit

Landform(s): till plains

Slope gradient: 1 to 4 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 17 in	silt loam	moderate	3.72 to 4.06 in	6.1 to 7.3
Bw --	17 to 39 in	sandy clay loam	moderate	3.53 to 4.19 in	6.1 to 7.3
2Bw --	39 to 49 in	loam	moderate	1.57 to 1.87 in	6.6 to 7.8
2BC --	49 to 60 in	loam	moderately slow	1.87 to 2.09 in	6.6 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M521C2--Kenyon silt loam, 6 to 12 percent slopes, moderately eroded

Kenyon, moderately eroded

Extent: 75 to 100 percent of the unit

Landform(s): till plains

Slope gradient: 6 to 12 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.57 to 1.73 in	5.1 to 7.3
Bw1 --	8 to 19 in	silt loam		moderate	2.20 to 2.43 in	5.1 to 7.3
2Bw2 --	19 to 41 in	loam		moderate	3.75 to 4.19 in	5.1 to 7.3
2Bw3 --	41 to 55 in	loam		moderate	2.41 to 2.69 in	5.1 to 7.3
2BC1 --	55 to 71 in	loam		moderate	2.68 to 2.99 in	6.1 to 8.4
2BC2 --	71 to 79 in	loam		moderate	1.34 to 1.50 in	6.1 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

M522D2--Bassett-Racine complex, 12 to 18 percent slopes, moderately eroded

Bassett, moderately eroded

Extent: 30 to 70 percent of the unit

Landform(s): till plains

Slope gradient: 12 to 18 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .24

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	loam		moderate	1.81 to 1.99 in	5.1 to 7.3
Bt --	9 to 30 in	loam		moderate	3.55 to 4.17 in	4.5 to 6.5
2Bt --	30 to 54 in	loam		moderate	3.84 to 4.56 in	5.1 to 6.5
2BC --	54 to 80 in	loam		moderately slow	4.42 to 4.94 in	6.1 to 8.3

Racine, moderately eroded

Extent: 30 to 60 percent of the unit

Landform(s): till plains

Slope gradient: 12 to 18 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .24

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	5.1 to 7.3
E --	8 to 12 in	loam		moderate	0.67 to 0.75 in	5.1 to 7.3
Bt --	12 to 18 in	clay loam		moderate	0.94 to 1.20 in	5.1 to 7.3
2Bt --	18 to 46 in	sandy clay loam		moderate	4.19 to 5.31 in	5.1 to 7.3
2BC --	46 to 60 in	loam		moderately slow	2.34 to 2.62 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M522E--Bassett-Racine complex, 18 to 25 percent slopes

Bassett

Extent: 30 to 70 percent of the unit

Landform(s): till plains

Slope gradient: 18 to 22 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	loam		moderate	1.81 to 1.99 in	5.1 to 7.3
Bt --	9 to 30 in	loam		moderate	3.55 to 4.17 in	4.5 to 6.5
2Bt --	30 to 54 in	loam		moderate	3.84 to 4.56 in	5.1 to 6.5
2BC --	54 to 80 in	loam		moderately slow	4.42 to 4.94 in	6.1 to 8.3

Racine

Extent: 30 to 60 percent of the unit

Landform(s): till plains

Slope gradient: 18 to 25 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .24

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	loam		moderate	1.57 to 1.73 in	5.1 to 7.3
E --	8 to 12 in	loam		moderate	0.67 to 0.75 in	5.1 to 7.3
Bt --	12 to 18 in	clay loam		moderate	0.94 to 1.20 in	5.1 to 7.3
2Bt --	18 to 46 in	sandy clay loam		moderate	4.19 to 5.31 in	5.1 to 7.3
2BC --	46 to 60 in	loam		moderately slow	2.34 to 2.62 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M523C2--Bassett-Kasson complex, 6 to 12 percent slopes, moderately eroded

Bassett, moderately eroded

Extent: 35 to 70 percent of the unit

Landform(s): till plains

Slope gradient: 6 to 12 percent

Parent material: loamy sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .20

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	loam		moderate	1.81 to 1.99 in	5.1 to 7.3
Bt --	9 to 30 in	loam		moderate	3.55 to 4.17 in	4.5 to 6.5
2Bt --	30 to 54 in	loam		moderate	3.84 to 4.56 in	5.1 to 6.5
2BC --	54 to 80 in	loam		moderately slow	4.42 to 4.94 in	6.1 to 8.3

Kasson, moderately eroded

Extent: 25 to 50 percent of the unit

Landform(s): till plains

Slope gradient: 6 to 9 percent

Parent material: silty sediments over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 6.5
BE --	8 to 11 in	silt loam		moderate	0.63 to 0.69 in	5.1 to 6.5
Bt --	11 to 20 in	loam		moderate	1.63 to 1.99 in	5.1 to 6.0
2Bt --	20 to 53 in	loam		moderate	5.62 to 6.28 in	5.1 to 7.3
2BC --	53 to 80 in	loam		moderately slow	4.55 to 5.09 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M524A--Hayfield silt loam, 0 to 2 percent slopes

Hayfield

Extent: 70 to 95 percent of the unit

Landform(s): rises on outwash plains, stream terraces

Slope gradient: 0 to 2 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 6.5
E --	8 to 13 in	loam	moderate	0.87 to 0.97 in	5.6 to 6.5
Bt --	13 to 29 in	loam	moderate	2.74 to 3.55 in	5.1 to 6.0
2C --	29 to 80 in	coarse sand	very rapid	1.02 to 4.06 in	5.6 to 7.8

Map Unit Description (MN)

Dodge County, Minnesota

M525A--Dakota silt loam, 0 to 3 percent slopes

Dakota

Extent: 80 to 100 percent of the unit

Landform(s): stream terraces

Slope gradient: 0 to 3 percent

Parent material: silty sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2s

Hydric soil: no

Hydrologic group: B

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.1 to 7.3
Bt --	13 to 35 in	silt loam	moderate	3.75 to 4.85 in	5.1 to 6.5
2Bt --	35 to 38 in	loamy sand	rapid	0.25 to 0.31 in	5.1 to 6.5
2C --	38 to 60 in	stratified gravelly coarse sand to sand	very rapid	0.43 to 1.52 in	5.1 to 6.5

Map Unit Description (MN)

Dodge County, Minnesota

M526B--Winneshiek silt loam, 2 to 6 percent slopes

Winneshiek

Extent: 70 to 90 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loamy sediments over residuum over limestone bedrock

Restrictive feature(s): lithic bedrock at 20 to 40 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE --	7 to 16 in	loam	moderate	1.54 to 1.99 in	5.6 to 7.3
Bt --	16 to 21 in	clay loam	moderate	0.71 to 0.90 in	5.6 to 7.3
2Bt --	21 to 24 in	clay	slow	0.25 to 0.50 in	5.6 to 7.3
3R --	24 to 60 in	weathered bedrock	rapid		

Map Unit Description (MN)

Dodge County, Minnesota

M526C2--Winneshiek silt loam, 6 to 12 percent slopes, moderately eroded

Winneshiek, moderately eroded

Extent: 60 to 90 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loamy sediments over residuum over limestone bedrock

Restrictive feature(s): lithic bedrock at 20 to 40 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE --	7 to 16 in	loam	moderate	1.54 to 1.99 in	5.6 to 7.3
Bt --	16 to 21 in	clay loam	moderate	0.71 to 0.90 in	5.6 to 7.3
2Bt --	21 to 24 in	clay	slow	0.25 to 0.50 in	5.6 to 7.3
3R --	24 to 60 in	weathered bedrock	rapid		

Map Unit Description (MN)

Dodge County, Minnesota

M527D2--Nasset-Winneshiek complex, 12 to 18 percent slopes, moderately eroded

Nasset, moderately eroded

Extent: 20 to 80 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loess over residuum over limestone bedrock

Restrictive feature(s): lithic bedrock at 40 to 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 6 in	silt loam	moderate	1.30 to 1.42 in	5.6 to 7.3
BE --	6 to 12 in	silt loam	moderate	1.18 to 1.30 in	5.6 to 7.3
Bt --	12 to 37 in	silt loam	moderate	4.54 to 5.54 in	5.1 to 6.5
2Bt --	37 to 44 in	clay	slow	0.57 to 1.13 in	5.6 to 7.3
3R --	44 to 60 in	weathered bedrock	rapid		

Winneshiek, moderately eroded

Extent: 20 to 50 percent of the unit

Landform(s): hills

Slope gradient: 12 to 18 percent

Parent material: loamy sediments over residuum over limestone bedrock

Restrictive feature(s): lithic bedrock at 20 to 40 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE --	7 to 16 in	loam	moderate	1.54 to 1.99 in	5.6 to 7.3
Bt --	16 to 21 in	clay loam	moderate	0.71 to 0.90 in	5.6 to 7.3
2Bt --	21 to 24 in	clay	slow	0.25 to 0.50 in	5.6 to 7.3
3R --	24 to 60 in	weathered bedrock	rapid		

Map Unit Description (MN)

Dodge County, Minnesota

M532A--Maxfield silty clay loam, 0 to 2 percent slopes, occasionally flooded

Maxfield, occasionally flooded

Extent: 60 to 85 percent of the unit

Landform(s): drainageways

Slope gradient: 0 to 2 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 19 in	silty clay loam	moderate	3.97 to 4.35 in	5.1 to 7.3
Bg1 --	19 to 29 in	silty clay loam	moderate	1.84 to 2.05 in	5.1 to 7.3
2Bw --	29 to 55 in	loam	moderate	4.16 to 4.94 in	5.1 to 6.5
2BC --	55 to 80 in	loam	moderately slow	3.97 to 4.71 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

M533A--Marshan clay loam, depressional, 0 to 1 percent slopes

Marshan, depressional

Extent: 80 to 95 percent of the unit

Landform(s): depressions on outwash plains

Slope gradient: 0 to 1 percent

Parent material: loamy sediments over sandy and gravelly outwash

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: frequent

Drainage class: very poorly drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .15

Land capability, nonirrigated: 3w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 14 in	clay loam	moderate	2.41 to 2.69 in	5.6 to 7.3
AB -- 14 to 18 in	silty clay loam	moderate	0.71 to 0.79 in	5.6 to 7.3
Bg1 -- 18 to 23 in	silty clay loam	moderate	0.71 to 0.90 in	5.6 to 7.3
Bg2 -- 23 to 30 in	loam	moderate	1.06 to 1.35 in	5.6 to 7.3
2Cg -- 30 to 60 in	stratified gravelly sand to sand	rapid	0.60 to 2.39 in	6.1 to 7.3

M-W--Water, miscellaneous

Water, miscellaneous

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil:

Hydrologic group:

Potential for frost action:

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
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Map Unit Description (MN)

Dodge County, Minnesota

N501B--Downs silt loam, 2 to 6 percent slopes

Downs

Extent: 85 to 99 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE --	8 to 17 in	silt loam		moderate	1.81 to 1.99 in	5.6 to 7.3
Bt --	17 to 39 in	silty clay loam		moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C --	39 to 60 in	silt loam		moderate	4.17 to 4.59 in	5.1 to 7.8

Map Unit Description (MN)

Dodge County, Minnesota

N501C2--Downs silt loam, 6 to 12 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 85 to 95 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE --	8 to 17 in	silt loam		moderate	1.81 to 1.99 in	5.6 to 7.3
Bt --	17 to 39 in	silty clay loam		moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C --	39 to 60 in	silt loam		moderate	4.17 to 4.59 in	5.1 to 7.8

Map Unit Description (MN)

Dodge County, Minnesota

N501D2--Downs silt loam, 12 to 18 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 85 to 95 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE --	8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt --	17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C --	39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Map Unit Description (MN)

Dodge County, Minnesota

N510E--Sylvester-Downs complex, 20 to 45 percent slopes

Sylvester

Extent: 40 to 85 percent of the unit

Landform(s): valley sides

Slope gradient: 20 to 45 percent

Parent material: loess over residuum over sandstone bedrock

Restrictive feature(s): paralithic bedrock at 24 to 40 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 7e

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 15 in	silt loam	moderate	3.29 to 3.59 in	5.6 to 7.3
Bt -- 15 to 30 in	silty clay loam	moderate	2.99 to 3.29 in	5.1 to 6.5
2BC -- 30 to 32 in	loamy sand	moderately rapid	0.16 to 0.28 in	5.1 to 6.5
2Cr -- 32 to 60 in	weathered bedrock	moderate		

Downs

Extent: 15 to 55 percent of the unit

Landform(s): valley sides

Slope gradient: 20 to 30 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,AB -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 52 in	silt loam	moderate	8.58 to 9.44 in	5.1 to 6.5
BC -- 52 to 80 in	silt loam	moderate	5.59 to 6.15 in	5.1 to 7.8

Map Unit Description (MN)

Dodge County, Minnesota

N514B--Joy-Ossian, occasionally flooded, complex, 1 to 5 percent slopes

Joy

Extent: 30 to 75 percent of the unit

Landform(s): drainageways

Slope gradient: 2 to 5 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 1

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 17 in	silt loam	moderate	3.72 to 4.06 in	5.6 to 7.3
Bt,Btg --	17 to 49 in	silt loam	moderate	6.38 to 7.02 in	5.1 to 7.3
Cg --	49 to 60 in	silt loam	moderate	1.87 to 2.43 in	6.1 to 8.4

Ossian, occasionally flooded

Extent: 15 to 40 percent of the unit

Landform(s): drainageways

Slope gradient: 1 to 3 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .28

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 15 in	silt loam	moderate	3.29 to 3.59 in	5.6 to 7.3
AB --	15 to 23 in	silt loam	moderate	1.57 to 1.73 in	5.6 to 7.3
Bg --	23 to 66 in	silt loam	moderate	8.66 to 9.53 in	5.6 to 7.3
BCg --	66 to 80 in	silt loam	moderate	2.76 to 3.03 in	6.1 to 7.8

Map Unit Description (MN)

Dodge County, Minnesota

N522A--Otter silt loam, drainageway, 0 to 2 percent slopes, frequently flooded

Otter, channeled upland, frequently flooded

Extent: 70 to 95 percent of the unit

Landform(s): drainageways

Slope gradient: 0 to 2 percent

Parent material: silty alluvium

Restrictive feature(s): greater than 60 inches

Flooding: frequent

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 5w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

Representative soil profile:

			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	6.1 to 7.8
A --	8 to 38 in	silt loam		moderate	5.69 to 7.18 in	6.1 to 7.8
Cg --	38 to 60 in	silt loam		moderate	2.87 to 4.85 in	6.1 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

N534E--Downs-Nasset complex, 18 to 25 percent slopes

Downs

Extent: 30 to 80 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 25 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
Bt --	8 to 40 in	silty clay loam		moderate	6.46 to 7.10 in	5.1 to 6.5
BC --	40 to 80 in	silt loam		moderate	7.95 to 8.75 in	5.1 to 7.8

Nasset

Extent: 15 to 40 percent of the unit

Landform(s): valley sides

Slope gradient: 18 to 25 percent

Parent material: loess over thin residuum over limestone bedrock

Restrictive feature(s): lithic bedrock at 40 to 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 6 in	silt loam		moderate	1.30 to 1.42 in	5.6 to 7.3
Bt --	6 to 41 in	silt loam		moderate	7.01 to 7.71 in	5.1 to 6.5
2R --	41 to 60 in	weathered bedrock		rapid		

Map Unit Description (MN)

Dodge County, Minnesota

N536B--Tama silt loam, 2 to 6 percent slopes

Tama

Extent: 75 to 97 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Bt --	13 to 44 in	silt loam	moderate	6.22 to 6.84 in	5.1 to 6.5
BC --	44 to 76 in	silt loam	moderate	6.38 to 7.02 in	5.6 to 7.8
C --	76 to 80 in	silt loam	moderate	0.79 to 0.87 in	5.6 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

N536C2--Tama silt loam, 6 to 12 percent slopes, moderately eroded

Tama, moderately eroded

Extent: 75 to 95 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Bt --	13 to 44 in	silt loam	moderate	6.22 to 6.84 in	5.1 to 6.5
BC --	44 to 76 in	silt loam	moderate	6.38 to 7.02 in	5.6 to 7.8
C --	76 to 80 in	silt loam	moderate	0.79 to 0.87 in	5.6 to 8.4

Map Unit Description (MN)

Dodge County, Minnesota

N537E2--Fayette-Hersey, bedrock substratum, complex, 18 to 25 percent slopes, moderately eroded

Fayette, moderately eroded

Extent: 30 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 18 to 25 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 3 in	silt loam		moderate	0.69 to 0.76 in	5.6 to 7.3
E, BE --	3 to 14 in	silt loam		moderate	2.20 to 2.43 in	5.6 to 7.3
Bt --	14 to 34 in	silty clay loam		moderate	3.94 to 4.33 in	5.1 to 6.5
BC, C --	34 to 60 in	silt loam		moderate	5.20 to 5.72 in	5.1 to 7.8

Hersey, bedrock substratum, moderately eroded

Extent: 15 to 45 percent of the unit

Landform(s): loess hills

Slope gradient: 18 to 25 percent

Parent material: loess over loamy till over limestone bedrock

Restrictive feature(s): lithic bedrock at 60 to 80 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .49

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
Bt --	8 to 62 in	silt loam		moderate	10.79 to 11.87 in	5.1 to 6.5
2Bt --	62 to 67 in	loam		moderate	0.77 to 0.97 in	5.1 to 7.3
3BC --	67 to 72 in	very flaggy fine sandy loam		rapid	0.31 to 0.72 in	7.4 to 8.4
3R --	72 to 80 in	weathered bedrock		rapid		

Map Unit Description (MN)

Dodge County, Minnesota

N538C2--Waubee and Massbach soils, 6 to 12 percent slopes, moderately eroded

Waubee, moderately eroded

Extent: 0 to 100 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E --	7 to 13 in	silt loam	moderate	1.18 to 1.30 in	5.6 to 7.3
Bt --	13 to 29 in	silty clay loam	moderate	3.23 to 3.55 in	5.1 to 6.5
2Bt --	29 to 45 in	loam	moderate	2.68 to 2.99 in	5.1 to 7.3
2BC1 --	45 to 57 in	loam	moderately slow	1.95 to 2.32 in	6.1 to 7.3
2BC2 --	57 to 80 in	loam	moderately slow	3.65 to 4.34 in	6.1 to 8.3

Massbach, moderately eroded

Extent: 0 to 100 percent of the unit

Landform(s): hills

Slope gradient: 6 to 12 percent

Parent material: loess over residuum over shale bedrock

Restrictive feature(s): paralithic bedrock at 40 to 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 4

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: C

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E --	7 to 11 in	silt loam	moderate	0.79 to 0.87 in	5.6 to 7.3
BE,Bt --	11 to 39 in	silty clay loam	moderate	5.59 to 6.15 in	5.6 to 7.3
2Bt --	39 to 46 in	silty clay	slow	0.57 to 1.28 in	6.1 to 7.8
2Cr --	46 to 60 in	weathered bedrock	slow		

Map Unit Description (MN)

Dodge County, Minnesota

N538C2--Waubeek and Massbach soils, 6 to 12 percent slopes, moderately eroded

Map Unit Description (MN)

Dodge County, Minnesota

N552B--Schapville-Winneshiek complex, 2 to 6 percent slopes

Schapville

Extent: 20 to 50 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loess over residuum over shale bedrock

Restrictive feature(s): paralithic bedrock at 20 to 40 inches

Flooding: none

Ponding: none

Drainage class: moderately well drained

Soil loss tolerance (T factor): 3

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
AB --	8 to 12 in	silt loam	moderate	0.87 to 0.94 in	5.6 to 7.3
Bt --	12 to 22 in	silty clay loam	moderate	2.05 to 2.25 in	5.6 to 7.3
2Bt --	22 to 25 in	silty clay	slow	0.25 to 0.38 in	5.6 to 7.8
2Cr --	25 to 60 in	weathered bedrock	slow		

Winneshiek

Extent: 20 to 50 percent of the unit

Landform(s): hills

Slope gradient: 2 to 6 percent

Parent material: loamy sediments over residuum over limestone

Restrictive feature(s): lithic bedrock at 20 to 40 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 7 in	silt loam	moderate	1.56 to 1.70 in	5.6 to 7.3
E, BE --	7 to 16 in	loam	moderate	1.54 to 1.99 in	5.6 to 7.3
Bt --	16 to 21 in	clay loam	moderate	0.71 to 0.90 in	5.6 to 7.3
2Bt --	21 to 24 in	clay	slow	0.25 to 0.50 in	5.6 to 7.3
3R --	24 to 60 in	weathered bedrock	rapid		

Map Unit Description (MN)

Dodge County, Minnesota

N555B--Tama-Dinsmore complex, 2 to 6 percent slopes

Tama

Extent: 15 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Bt --	13 to 44 in	silt loam	moderate	6.22 to 6.84 in	5.1 to 6.5
BC --	44 to 76 in	silt loam	moderate	6.38 to 7.02 in	5.6 to 7.8
C --	76 to 80 in	silt loam	moderate	0.79 to 0.87 in	5.6 to 8.4

Dinsmore

Extent: 15 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

Representative soil profile:

		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A --	0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bt --	16 to 48 in	silty clay loam	moderate	6.38 to 7.02 in	5.1 to 7.3
2BC --	48 to 80 in	loam	moderately slow	5.10 to 6.06 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

N555C2--Tama-Dinsmore complex, 6 to 12 percent slopes, moderately eroded

Tama, moderately eroded

Extent: 20 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 13 in	silt loam	moderate	2.86 to 3.12 in	5.6 to 7.3
Bt -- 13 to 44 in	silt loam	moderate	6.22 to 6.84 in	5.1 to 6.5
BC -- 44 to 76 in	silt loam	moderate	6.38 to 7.02 in	5.6 to 7.8
C -- 76 to 80 in	silt loam	moderate	0.79 to 0.87 in	5.6 to 8.4

Dinsmore, moderately eroded

Extent: 15 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 16 in	silt loam	moderate	3.55 to 3.87 in	5.6 to 7.3
Bt -- 16 to 48 in	silty clay loam	moderate	6.38 to 7.02 in	5.1 to 7.3
2BC -- 48 to 80 in	loam	moderately slow	5.10 to 6.06 in	6.1 to 8.3

Map Unit Description (MN)

Dodge County, Minnesota

N560E2--Fayette-Hersey complex, 18 to 25 percent slopes, moderately eroded

Fayette, moderately eroded

Extent: 15 to 60 percent of the unit

Landform(s): loess hills

Slope gradient: 18 to 25 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 3 in	silt loam		moderate	0.69 to 0.76 in	5.6 to 7.3
E, BE --	3 to 14 in	silt loam		moderate	2.20 to 2.43 in	5.6 to 7.3
Bt --	14 to 34 in	silty clay loam		moderate	3.94 to 4.33 in	5.1 to 6.5
BC, C --	34 to 60 in	silt loam		moderate	5.20 to 5.72 in	5.1 to 7.8

Hersey, moderately eroded

Extent: 15 to 55 percent of the unit

Landform(s): loess hills

Slope gradient: 18 to 25 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .49

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.99 to 2.17 in	5.6 to 7.3
Bt --	9 to 62 in	silt loam		moderate	10.55 to 11.61 in	5.1 to 6.5
2BC --	62 to 80 in	loam		moderate	2.54 to 3.44 in	5.1 to 7.3

Map Unit Description (MN)

Dodge County, Minnesota

N572B--Downs-Hersey, bedrock substratum, complex, 2 to 6 percent slopes

Downs

Extent: 45 to 85 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, bedrock substratum

Extent: 15 to 40 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess over loamy till over limestone bedrock

Restrictive feature(s): lithic bedrock at 60 to 80 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 9 in	silt loam	moderate	1.99 to 2.17 in	5.6 to 7.3
Bt -- 9 to 60 in	silt loam	moderate	10.16 to 11.17 in	5.1 to 6.5
2BC -- 60 to 70 in	clay loam	moderate	1.43 to 1.94 in	5.1 to 7.3
3R -- 70 to 80 in	weathered bedrock	rapid		

Map Unit Description (MN)

Dodge County, Minnesota

N572C2--Downs-Hersey, bedrock substratum, complex, 6 to 12 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 45 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE --	8 to 17 in	silt loam		moderate	1.81 to 1.99 in	5.6 to 7.3
Bt --	17 to 39 in	silty clay loam		moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C --	39 to 60 in	silt loam		moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, bedrock substratum, moderately eroded

Extent: 15 to 45 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy till over limestone bedrock

Restrictive feature(s): lithic bedrock at 60 to 80 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.99 to 2.17 in	5.6 to 7.3
Bt --	9 to 60 in	silt loam		moderate	10.16 to 11.17 in	5.1 to 6.5
2BC --	60 to 70 in	clay loam		moderate	1.43 to 1.94 in	5.1 to 7.3
3R --	70 to 80 in	weathered bedrock		rapid		

Map Unit Description (MN)

Dodge County, Minnesota

N572D2--Downs-Hersey, bedrock substratum, complex, 12 to 18 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 45 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE --	8 to 17 in	silt loam		moderate	1.81 to 1.99 in	5.6 to 7.3
Bt --	17 to 39 in	silty clay loam		moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C --	39 to 60 in	silt loam		moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, bedrock substratum, moderately eroded

Extent: 15 to 45 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess over loamy till over limestone bedrock

Restrictive feature(s): lithic bedrock at 60 to 80 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .49

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 9 in	silt loam		moderate	1.99 to 2.17 in	5.6 to 7.3
Bt --	9 to 60 in	silt loam		moderate	10.16 to 11.17 in	5.1 to 6.5
2BC --	60 to 70 in	clay loam		moderate	1.43 to 1.94 in	5.1 to 7.3
3R --	70 to 80 in	weathered bedrock		rapid		

Map Unit Description (MN)

Dodge County, Minnesota

N574B--Downs-Hersey complex, 2 to 6 percent slopes

Downs

Extent: 15 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey

Extent: 15 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 2 to 6 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 6.5
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Dodge County, Minnesota

N574C2--Downs-Hersey complex, 6 to 12 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 20 to 80 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE --	8 to 17 in	silt loam		moderate	1.81 to 1.99 in	5.6 to 7.3
Bt --	17 to 39 in	silty clay loam		moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C --	39 to 60 in	silt loam		moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, moderately eroded

Extent: 15 to 75 percent of the unit

Landform(s): loess hills

Slope gradient: 6 to 12 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 3e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>			<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 8 in	silt loam		moderate	1.73 to 1.89 in	5.6 to 7.3
Bt --	8 to 58 in	silt loam		moderate	10.00 to 11.00 in	5.1 to 6.5
2Bt --	58 to 80 in	clay loam		moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Dodge County, Minnesota

N574D2--Downs-Hersey complex, 12 to 18 percent slopes, moderately eroded

Downs, moderately eroded

Extent: 15 to 60 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
E, BE -- 8 to 17 in	silt loam	moderate	1.81 to 1.99 in	5.6 to 7.3
Bt -- 17 to 39 in	silty clay loam	moderate	4.41 to 4.85 in	5.1 to 6.5
BC, C -- 39 to 60 in	silt loam	moderate	4.17 to 4.59 in	5.1 to 7.8

Hersey, moderately eroded

Extent: 15 to 60 percent of the unit

Landform(s): loess hills

Slope gradient: 12 to 18 percent

Parent material: loess over loamy till

Restrictive feature(s): greater than 60 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .49

Land capability, nonirrigated: 4e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap -- 0 to 8 in	silt loam	moderate	1.73 to 1.89 in	5.6 to 7.3
Bt -- 8 to 58 in	silt loam	moderate	10.00 to 11.00 in	5.1 to 6.5
2Bt -- 58 to 80 in	clay loam	moderate	3.09 to 4.19 in	5.1 to 7.3

Map Unit Description (MN)

Dodge County, Minnesota

N575F--Channahon-Emeline-Rockton complex, 25 to 50 percent slopes

Emeline

Extent: 15 to 40 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 50 percent

Parent material: loamy sediments over limestone bedrock

Restrictive feature(s): lithic bedrock at 4 to 10 inches

Flooding: none

Ponding: none

Drainage class: somewhat excessively drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 7s

Hydric soil: no

Hydrologic group: D

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A --	0 to 9 in	silt loam	moderate	1.81 to 2.17 in	6.1 to 8.4
2R --	9 to 60 in	weathered bedrock	rapid		

Rockton

Extent: 15 to 45 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 30 percent

Parent material: loamy sediments over residuum over limestone bedrock

Restrictive feature(s): lithic bedrock at 20 to 40 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 2

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .32

Land capability, nonirrigated: 6e

Hydric soil: no

Hydrologic group: C

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A,AB --	0 to 15 in	silt loam	moderate	3.29 to 3.59 in	5.6 to 7.3
Bt --	15 to 26 in	loam	moderate	1.87 to 2.09 in	5.1 to 6.5
2Bt --	26 to 31 in	clay	slow	0.51 to 0.82 in	5.6 to 7.3
2R --	31 to 60 in	weathered bedrock	rapid		

Map Unit Description (MN)

Dodge County, Minnesota

N575F--Channahon-Emeline-Rockton complex, 25 to 50 percent slopes

Channahon

Extent: 15 to 40 percent of the unit

Landform(s): valley sides

Slope gradient: 25 to 50 percent

Parent material: loamy sediments over limestone bedrock

Restrictive feature(s): lithic bedrock at 10 to 20 inches

Flooding: none

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 1

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .37

Land capability, nonirrigated: 7s

Hydric soil: no

Hydrologic group: D

Potential for frost action: moderate

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap --	0 to 10 in	silt loam	moderate	2.17 to 2.36 in	6.1 to 8.4
Bt --	10 to 16 in	silty clay loam	moderate	0.94 to 1.39 in	6.1 to 8.4
2R --	16 to 60 in	weathered bedrock	rapid		

N578B--Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded

Barremills, drainageway, occasionally flooded

Extent: 75 to 98 percent of the unit

Landform(s): drainageways

Slope gradient: 1 to 5 percent

Parent material: silty slope alluvium over loess

Restrictive feature(s): greater than 60 inches

Flooding: occasional

Ponding: none

Drainage class: well drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 5

Wind erodibility index (WEI): 56

Kw factor (surface layer) .43

Land capability, nonirrigated: 2e

Hydric soil: no

Hydrologic group: B

Potential for frost action: high

<i>Representative soil profile:</i>		<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,AB --	0 to 27 in	silt loam	moderate	5.98 to 6.52 in	5.6 to 7.3
Bt --	27 to 65 in	silt loam	moderate	7.56 to 8.31 in	5.1 to 7.3
BC --	65 to 80 in	silt loam	moderate	2.99 to 3.29 in	5.1 to 7.3

Map Unit Description (MN)

Dodge County, Minnesota

N595A--Otter-Lawson complex, bedrock substratum, 0 to 2 percent slopes, occasionally flooded

Otter, bedrock substratum, occasionally flooded

Extent: 30 to 80 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: silty alluvium over limestone bedrock

Restrictive feature(s): lithic bedrock at 60 to 80 inches

Flooding: occasional

Ponding: none

Drainage class: poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .32

Land capability, nonirrigated: 2w

Hydric soil: yes

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
A -- 0 to 46 in	silt loam	moderate	10.13 to 11.06 in	6.1 to 7.8
Bg -- 46 to 55 in	silt loam	moderate	1.54 to 1.99 in	6.1 to 7.8
BCg -- 55 to 61 in	very fine sandy loam	moderate	1.00 to 1.18 in	6.1 to 8.4
2R -- 61 to 80 in	weathered bedrock	moderately slow		

Lawson, bedrock substratum, occasionally flooded

Extent: 20 to 60 percent of the unit

Landform(s): flood plains

Slope gradient: 0 to 2 percent

Parent material: silty alluvium over limestone bedrock

Restrictive feature(s): lithic bedrock at 60 to 80 inches

Flooding: occasional

Ponding: none

Drainage class: somewhat poorly drained

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 6

Wind erodibility index (WEI): 48

Kw factor (surface layer) .37

Land capability, nonirrigated: 2w

Hydric soil: no

Hydrologic group: B/D

Potential for frost action: high

<i>Representative soil profile:</i>	<i>Texture</i>	<i>Permeability</i>	<i>Available water capacity</i>	<i>pH</i>
Ap,A -- 0 to 26 in	silt loam	moderate	5.72 to 6.24 in	6.1 to 7.8
C -- 26 to 63 in	silt loam	moderately rapid	6.29 to 7.03 in	6.1 to 7.8
2R -- 63 to 80 in	weathered bedrock	moderately slow		

Map Unit Description (MN)

Dodge County, Minnesota

W--Water

Water

Extent: 100 percent of the unit

Landform(s):

Slope gradient:

Parent material:

Restrictive feature(s): greater than 60 inches

Flooding:

Ponding:

Drainage class:

Soil loss tolerance (T factor):

Wind erodibility group (WEG):

Wind erodibility index (WEI):

Kw factor (surface layer)

Land capability, nonirrigated:

Hydric soil:

Hydrologic group:

Potential for frost action:

Representative soil profile:

Texture

Permeability

*Available water
capacity*

pH

This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.